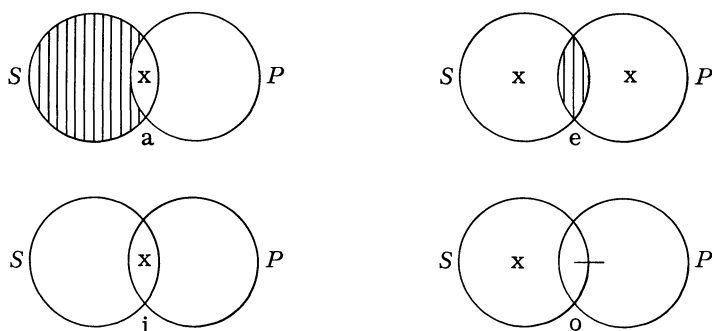


## A THEORY OF CATEGORICAL SYLLOGISM

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In this paper I shall try to present a theory which can take the place of the classical theory of categorical syllogism. It seems to me that this method has advantages, in particular for instructive purposes, that it is simpler and easier.

If we adapt the traditional interpretation of categorical propositions, Venn's diagrams must be modified as follows:



A bar indicates non-emptiness of a compound region in which the bar is contained.

Now we divide syllogisms into four cases where conclusions are respectively  $SaP$ ,  $SeP$ ,  $SiP$ ,  $SoP$ , and in each case we search the necessary condition for the validity of the syllogisms, by means of modified Venn diagrams.

- 1) The case where the conclusion is  $SaP$ :

If the conclusion of a valid syllogism is  $SaP$ ,

